

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20242	(@ad<"19991118") and ((wir\$3 or bond or ball\$1 or bump\$1) with pad) and (chip or die or wafer)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:05
L2	2557	L1 and ((insulation or insulating or dielectric) with pad)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 11:51
L3	1475	L2 and "257"/\$.ccls.	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 11:51
L4	798	L2 and (barrier or "ti" or "ta" or "tin" or "tan" or ((tantulum or titanium) adj nitride))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 11:52
L5	2	("6809421").URPN.	USPAT	OR	OFF	2005/11/03 11:55
L6	11	("4499655" "4774632" "4807021" "5229647" "5270261" "5399898" "5408123" "5618752" "5793105" "5846879" "5973396").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 11:55
L7	31	("4499655").URPN.	USPAT	OR	OFF	2005/11/03 11:59
L8	22	("3918148" "4357203" "4882454" "4963697" "5061567" "5093153" "5154957" "5274912" "5278077" "5424581" "5643433" "5677230" "5700735" "5703408" "5718039" "5757072" "5777379" "5792538" "5812316" "5844523" "5854142" "5974025").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:04
L9	4	("4600658" "4800177" "5057447" "5309025").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:08
L10	4	("4600658" "4800177" "5057447" "5309025").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:09
L11	3	("4705606" "4984061" "5189506").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:09
L12	7	("4525383" "4543592" "4582563" "4617193" "4636832" "4656496" "4795722").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:09

L13	46	("4984061").URPN.	USPAT	OR	OFF	2005/11/03 12:09
L14	46	("4984061").URPN.	USPAT	OR	OFF	2005/11/03 12:16
L15	4	("4600658" "4800177" "5057447" "5309025").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:19
L16	11	("5703408").URPN.	USPAT	OR	OFF	2005/11/03 12:19
L17	3	("5149674" "5266522" "5403777").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:23
L18	28	("5700735").URPN.	USPAT	OR	OFF	2005/11/03 12:24
L19	3	("5149674" "5266522" "5403777").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:26
L20	3	("5149674" "5266522" "5403777").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 12:28
L21	28	("5700735").URPN.	USPAT	OR	OFF	2005/11/03 12:39
L22	4	("4392150" "4604641" "4975756" "5121186").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 13:26
L23	5	("5357136").URPN.	USPAT	OR	OFF	2005/11/03 13:44
L24	938	L2 not L4	USPAT	OR	OFF	2005/11/03 13:44
L25	3	("5059756" "5360941" "5365409").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 14:27
L26	3	("5059756" "5360941" "5365409").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 14:41
L27	3	("6255586").URPN.	USPAT	OR	OFF	2005/11/03 14:41
L28	3	("5059756" "5360941" "5365409").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 14:49
L29	2	("4636832" "5248903").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:20
L30	42	("5502337").URPN.	USPAT	OR	OFF	2005/11/03 15:20
L31	0	("6921714").URPN.	USPAT	OR	OFF	2005/11/03 15:21
L32	17	("5149674" "5248903" "5291062" "5345108" "5475236" "5502337" "5525546" "5736791" "5739587" "5838023" "5847466" "5923088" "5939789" "6031293" "6037668" "6133625" "6265313").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:21
L33	29	("5923088").URPN.	USPAT	OR	OFF	2005/11/03 15:22

L34	13	("4723197" "5149674" "5284797" "5719448" "5736791" "5804883" "5912510" "5923088" "5942448" "5989991" "6187680" "6191023" "6197613").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:23
L35	11	("5309025" "5547901" "5631498" "5668411" "5700735" "5707894" "5785236" "5795796" "5807787" "5834365" "5904565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:24
L36	9	("5202579" "5287002" "5403777" "5502337" "5739587" "5923088" "5942800" "6191023" "6207547").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:31
L37	5	("5289036" "5308795" "5404047" "5412250" "5502337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 15:38
L38	3	("6577017").URPN.	USPAT	OR	OFF	2005/11/03 15:39
L39	7	("4349609" "4451326" "4523372" "4601939" "4613888" "4646126" "4821092").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 16:00
L40	6	("5124781").URPN.	USPAT	OR	OFF	2005/11/03 16:00
L41	9	(@ad<"19991118") and 257/459, 779.ccls. and ((tantalum adj nitride) or "tan")	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:23
L42	333	(@ad<"19991118") and 257/459, 779.ccls. and ((titanium adj nitride) or "tin" or barrier)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:08
L43	318	L42 not L4	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:08
L44	318	L42 not L3	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:08
L45	1	("5936283").URPN.	USPAT	OR	OFF	2005/11/03 16:16
L46	4	("5264729" "5338975" "5631495" "5689133").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/03 16:16

L47	17	(@ad<"19991118") and 438/612. ccls. and ((tantalum adj nitride) or "tan")	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 16:26
L48	1	("6313024").PN.	USPAT; USOCR	OR	OFF	2005/11/03 16:26